

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: .

Daniel P. Getman, et al.

Serial No.: TBA

Filed: November 19, 2003

For: Heterocyclecarbonyl Amino Acid Hydroxyethylamino
Sulfonamide Retroviral Protease Inhibitors

Atty. Docket No.: 101765.00106
(2870/9)

Group Art Unit: TBA

Examiner: TBA

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, enclosed is Form PTO-1449 listing documents for consideration by the Examiner during the prosecution of the subject application. Copies of the documents are available to the Examiner in one of Application Nos. 10/120,791, 09/775,682, 09/307,711, 09/028,272, 08/474,117 or 08/402,419, from which the subject application claims benefit under 35 U.S.C. § 120, and are not being submitted at this time pursuant to 37 C.F.R. § 1.98(d). It is believed that no fee is due for this submission; however, if a fee is required, please charge deposit account no. 19-0733. Consideration of this information is respectfully requested.

Respectfully submitted,

BANNER & WITCOFF, LTD.

Date: 19 Nov. 2003

By: 

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JMS/bao
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U.S. PATENT DOCUMENTS

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
AA	4,599,198	07/08/86	Hoover			
AB	SIR H725	01/02/90	Gordon			
AC	4,514,391	04/30/85	Gordon et al.			
AD	4,450,164	04/30/85	Bristol et al.			
AE	4,477,441	10/16/84	Boger et al.			
AF	4,548,926	10/22/85	Matsueda et al.			
AG	4,616,088	10/07/86	Ryono et al.			
AH	4,668,769	05/26/87	Hoover			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO
AI	0 346 847 A2	12/20/89	Europe				
AJ	0 342 541 A2	11/23/89	Europe				
AK	2,184,730 A	07/01/87	UK				
AL	2,209,752 A	05/24/89	UK				
AM	0 264 795 A2	04/27/88	Europe				
AN	0 264 795 A3	04/27/88	Europe				
AO	2,200,115 A	07/27/88	UK				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

AP	Roberts et al., "Rational Design of Peptide-Based HIV Proteinase Inhibitors", Science, 248, 358-361, (1990)
AQ	Erickson et al., "Design, Activity, and 2.8 Å Crystal Structure of a C ₂ Symmetric Inhibitor Complexed to HIV-1 Protease", Science, 249, 527-533 (1990)
AR	Pearle et al., Nature, International Weekly Journal of Science, Vol. 328, No. 6130, pg. 482, Aug. 6-12, (1987)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

**Copies of references not provided at the time of this submission.

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	BA	4,668,770	05/26/87	Boger et al.			
	BB	4,757,050	07/12/88	Natarajan et al.			
	BC	4,880,938	11/14/89	Freidinger			
	BD	4,963,530	10/16/90	Hemmi et al.			
	BE	4,977,277	12/11/90	Rosenberg et al.			
	BF	4,595,407	06/17/86	L. Carter			
	BG	4,634,465	01/06/87	Ehrenfreund et al.			
	BH	5,776,971	07/07/98	Getman et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclasses	Translation	
							YES	NO
	BI	WO 93/13066	07/08/93	PCT				
	BJ	0 114 993 A2	08/08/84	Europe				
	BK	0 172 347 A2	02/26/86	Europe				
	BL	0 223 437 A2	05/27/87	Europe				
	BM	0 337 714 A2	10/18/89	Europe				
	BN	0 356 223 A2	02/28/90	Europe				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	BO	Martin, "Ro 31-8959/003", Drugs of the Future, 16 (3), 210-212 (1991)
	BP	Meek et al., "Inhibition of HIV-1 Protease in Infected T-lymphocytes by Synthetic Peptide Analogues", Nature, Vol. 343, pp. 90-92 (1990)
	BQ	McQuade, "A Synthetic HIV-1 Protease Inhibitor with Antiviral Activity Arrests HIV-Like Particle Maturation", Science, Vol. 247, 454-456 (19__)

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	CA	5,278,148	01/11/94	Branca et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	CB	0 389 898 A2	10/03/90	Europe				
	CC	PCT/US93/08458	03/17/94	PCT				
	CD	WO 94/05639	03/17/94	PCT				
	CE	0 393 445 A2	10/24/90	German				
	CF	0 393 457 A1	10/24/90	Europe				
	CG	0 402 646 A1	12/19/90	Europe				
	CH	AU-A-79823/87	04/28/88	Australia				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	CI	Rich et al., "Design of Protease Inhibitors", Peptide Inhibitors of Proteases, 511-520
	CJ	Rosenberg et al., "Novel Renin Inhibitors Containing Analogues of Statine Retro-Inverted at the C-Termini: Specificity at the P ₂ Histidine Site", J. Med. Chem., 30, 1224-1228 (1987)
	CK	Fittkau, "α-Aminochloromethylketone aus Aminosäuren and Peptiden als substratanaloge Inhibitoren der Leucinaminopeptidase, Journal f. Prakt. Chemie., Band 315, Heft 6, S. 1037-1044 (1973)
	CL	Hirsch et al. "Therapy for Human Immunodeficiency Virus Infection", New England Journal of Medicine, Vol. 328, No. 23, 1686-1695 (1993)
	CM	E.E. Gilbert, "Recent Developments in Preparative Sulfonation and Sulfation", Synthesis, International Journal of Methods in Synthetic Organic Chemistry, No. 1: September (1969)
	CN	Mitsuya et al., "Inhibition of the <i>in vitro</i> Infectivity and Cytopathic Effect of Human T-lymphotrophic Virus Type III/Lymphadenopathy-Associated Virus (HTLV-III/LAV) by 2',3'-Dideoxynucleosides", Prod. Natl. Acad. Sci. USA, Vol. 83, 1911-15 March (1986)
	CO	Silcox et al., "Benzodioxoles, Naphthodioxins and Dibenzodioxepins", J. Heterocycl. Chem., 4, 166-67 (1967)
	CP	Cabiddu et al., "A Convenient Method for the Synthesis of 1,3-Benzoxathioles", Synthesis, 797-798 (1976)

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	DA						
	DB						

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Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	DC	0 468 641 A3	01/29/92	Europe				
	DD	WO 92/08699	05/29/92	PCT				
	DE	WO 94/04492	03/03/94	PCT				
	DF	WO 94/10134	05/11/94	PCT				
	DG	WO 95/06030	03/02/95	PCT				
	DH	WO 95/33464	12/14/95	PCT				
	DI	WO 94/10133	05/11/94	PCT				
	DJ	WO 84/03044	08/16/84	PCT				
	DK	0 104 041	03/28/84	Europe				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	DL	International Search Report dated July 25, 1996 for application PCT/US96/02683
	DM	Ncube et al., "Generation and Reactions of 2-Lithio-2-Substituted-1,3-Benzodithioles: New, Convenient Acyl Carbanion Equivalents", Tetrahedron Letters No. 26, 2345-2348 (1978)
	DN	Ncube et al., "A Convenient Synthesis of 2-Alkyl- and 2-Aryl-1,3-Benzodithioles", Tetrahedron Letters No. 3, 255-256 (1977)
	DO	Cole et al., "An Improved Method for the Synthesis of 2,2-Disubstitued and 2-Monosubstituted 1,3-Benzodioxoles", Aust. J. Chem., 33, 675-80 (1980)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	5	of	5
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Complete if Known

Application Number	TBA
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First Named Inventor	Daniel P. Getman, et al.
Group Art Unit	TBA
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